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L12: Entry 9 of 9

File: DWPI

Mar 13, 1989

DERWENT-ACC-NO: 1989-124810

DERWENT-WEEK: 199739

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TITLE: Tumoricidal acidic polysaccharide - obtd. by extracting fruit of  
Himematsutake mushroom with hot water, etc.

PATENT-ASSIGNEE:

ASSIGNEE

CODE

IWAIDEKINGAKU KENKYUSHO

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PRIORITY-DATA: 1987JP-0221847 (September 7, 1987)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <a href="#">JP 01067194 A</a>	March 13, 1989		004	
<input type="checkbox"/> <a href="#">JP 2646361 B2</a>	August 27, 1997		003	C08B037/00

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 01067194A	September 7, 1987	1987JP-0221847	
JP 2646361B2	September 7, 1987	1987JP-0221847	
JP 2646361B2		JP 1067194	Previous Publ.

INT-CL (IPC): A61K 31/72; A61K 31/725; C08B 37/00; C12P 19/04; C12R 1/64; C12P  
19/04; C12R 1/645

ABSTRACTED-PUB-NO: JP 01067194A

BASIC-ABSTRACT:

Fruit body of Himematsutake (*Agaricus* sp. mushroom) is extracted with hot water,  
the extracted soln. is purified by alcohol pptn. method, ion-exchange  
chromatography and gel filtration to obtain the antitumour acidic polysaccharide.

USE/ADVANTAGE - The polysaccharide is effective against adenocarcinoma sarcoma 180  
(ICR mouse) by intraperitoneal and oral administration.

In an example, a dried fruit body of Himematsutake was ground and, was pre-  
extracted with 85% EtOH at 80 deg.C. The residue was extracted with hot water. The  
extracted soln. were combined and concd. This was preliminarily cooled. To this,

cool EtOH was added gradually with stirring until EtOH concn. in aq. soln. reached at 80%, produced ppte. was collected by centrifugation, and brown powder was obtd. The powder was dissolved in H2O, and charged into DEAE-Toyopearl 650M gel packed column. Next, it was eluted with H2O, until colouring of saccharide disappeared by phenol H2SO4 method. The treated, by gradient elution with NaCl, and saccharide fraction eluted at 0-0.5M NaCl concn. was collected, dialysed, lyophilised, and brown powder was obtd. This powder was dissolved in 0.2M NaCl soln., treated by Toyopearl 55S gel column chromatography; the first eluted fraction was collected, dialysed and lyophilised. 0.4g Of the acidic polysaccharide was obtd.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: TUMORICIDAL ACIDIC POLYSACCHARIDE OBTAIN EXTRACT FRUIT HIMEMATSUTAKE MUSHROOM HOT WATER

DERWENT-CLASS: B04 D16

CPI-CODES: B04-A07F1; B04-C02F; B11-B; B12-G07; D05-A04C; D05-C08; D05-H05; D05-H13;

CHEMICAL-CODES:

Chemical Indexing M1 \*01\*

Fragmentation Code

M423 M720 M903 N132 N161 N513 P633 V400 V403 V735

Registry Numbers

1704X 1724X 1711X 1714X

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0245S; 1706S

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1989-055263

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